IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

International Application No.   :   PCT/GB00/01015

International Filing Date   :   17 MARCH 2000

U.S. Serial No.   :   09/937,100

Deposit Date U.S. Nat'l Phase   :   20 SEPTEMBER 2001

Priority Date(s) Claimed   :   23 MARCH 1999

Applicant(s)   :   CARR, Francis, J.

Title: PROTEIN ISOLATION AND ANALYSIS

RESPONSE TO NOTIFICATION OF DEFECTIVE RESPONSE
IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

Commissioner for Patents
Box PCT
Washington, D.C. 20231
Sir:

In response to the Notification of Defective Response mailed 22 MARCH 2002 attached is a paper and disk version of the Sequence Listing, a statement affirming that the paper and disk versions are identical, as well as a copy of the Notification.

The Patent and Trademark Office is authorized to deduct any additional fees from, or credit any overpayments to, counsel's deposit account No. 13-3402, a copy of this paper being attached.

Respectfully submitted,

#32,004

Anthony J. Zelano Reg. No.27,969
Attorney for Applicants
MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
Arlington Courthouse Plaza I
2200 Clarendon Boulevard, Suite 1400
Arlington, Virginia 22201
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Internet Address:zelano@mwzb.com

Filed: 22 APRIL 2002

MERCK 2309

UNITED STATES PATENT AND TRADEMARK OFFICE

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MAR 29 2002

Commissioner for Patents, Box PCT
United States Patent and Trademark Office
Washington, D.C. 20231
Millen, White, Zelano & Branigan, P.C.

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/937,100	Francis J Carr	MERCK 2309

23599
MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
2200 CLARENDON BLVD.
SUITE 1400
ARLINGTON, VA 22201

INTERNATIONAL APPLICATION NO.	
PCT/GB00/01015	
I.A. FILING DATE	PRIORITY DATE
03/17/2000	03/23/1999

CONFIRMATION NO. 4360

371 FORMALITIES LETTER

OC000000007684337

Date Mailed: 03/22/2002

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

handwritten: DEFECTIVE RESPONSE DUE (SEQ. LISTING) 4/22/02 W/CALLUP 4/15/02

- U.S. Basic National Fee
- Priority Document
- Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Copy of IPE Report
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Oath or Declaration
- Preliminary Amendments
- Substitute Specification

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):

    - A copy of the "Sequence Listing" in computer readable form has been submitted. The content of the computer readable form, however, does not comply with the requirements of 37 CFR 1.822 and/or 1.832, as indicated on the attached marked-up copy of the "Raw Sequence Listing."

- The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
- APPLICANT MUST PROVIDE:
    - An initial or substitute computer readable form (CRF) of the "Sequence Listing."
    - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.

- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

    - For Rules Interpretation, call (703) 308-4216
    - To Purchase PatentIn Software, call (703) 306-2600
    - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

    - A copy of the "Sequence Listing" in computer readable form has been submitted. The content of the computer readable form, however, does not comply with the requirements of 37 CFR 1.822 and/or 1.832, as indicated on the attached marked-up copy of the "Raw Sequence Listing."
    - The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)
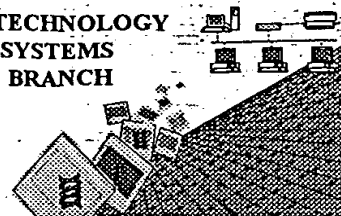
A copy of this notice MUST be returned with the response.

VONDA M WALLACE

Telephone: (703) 305-3736

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/937,100	PCT/GB00/01015	MERCK 2309

FORM PCT/DO/EO/916 (371 Formalities Notice)

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: _09/937, 100_
Source: _PCT/09_
Date Processed by STIC: _2/8/2002_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
   APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
   NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER
VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
     http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**, **EFS Submission**
   User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202.
3. Hand Carry directly to:
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
   Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
        Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
   2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
   Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/937,100

DATE: 02/08/2002
TIME: 11:34:17

Input Set : A:\pto.vsk.txt
Output Set: N:\CRF3\02082002\I937100.raw

Does Not Comply
Corrected Diskette Needed

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 3 <110> APPLICANT: Biovation Limited
 5 <120> TITLE OF INVENTION: Protein Isolation and Analysis
 7 <130> FILE REFERENCE: 0099176-Bzgs
 9 <140> CURRENT APPLICATION NUMBER: US/09/937,100
10 <141> CURRENT FILING DATE: 2001-01-07
12 <150> PRIOR APPLICATION NUMBER: 9906551.8 GB
13 <151> PRIOR FILING DATE: 1999-03-23
15 <150> PRIOR APPLICATION NUMBER: 9907057.5 GB
16 <151> PRIOR FILING DATE: 1999-03-29
18 <150> PRIOR APPLICATION NUMBER: 9907641.6 GB
19 <151> PRIOR FILING DATE: 1999-04-06
21 <150> PRIOR APPLICATION NUMBER: 9914874.4 GB
22 <151> PRIOR FILING DATE: 1999-06-28
24 <150> PRIOR APPLICATION NUMBER: 9915363.7 GB
25 <151> PRIOR FILING DATE: 1999-07-02
27 <150> PRIOR APPLICATION NUMBER: 9915677.0 GB
28 <151> PRIOR FILING DATE: 1999-07-06
30 <150> PRIOR APPLICATION NUMBER: 9916511.0 GB
31 <151> PRIOR FILING DATE: 1999-07-14
33 <150> PRIOR APPLICATION NUMBER: 9920503.1 GB
34 <151> PRIOR FILING DATE: 1999-08-31
36 <150> PRIOR APPLICATION NUMBER: 9922285.3 GB
37 <151> PRIOR FILING DATE: 1999-09-21
39 <160> NUMBER OF SEQ ID NOS: 69
41 <170> SOFTWARE: PatentIn version 3.1
43 <210> SEQ ID NO: 1
44 <211> LENGTH: 24
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
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49 <223> OTHER INFORMATION: Oligonucleotide for an 8 amino acid barcode peptide
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52 <221> NAME/KEY: CDS
53 <222> LOCATION: (1)..(24)
54 <223> OTHER INFORMATION:
57 <220> FEATURE:
58 <221> NAME/KEY: misc_feature
59 <222> LOCATION: (1)..(1)
60 <223> OTHER INFORMATION: n=a,t,g,c
63 <220> FEATURE:
64 <221> NAME/KEY: misc_feature
65 <222> LOCATION: (4)..(4)
66 <223> OTHER INFORMATION: n=a,t,g,c
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/937,100

DATE: 02/08/2002
TIME: 11:34:17

Input Set : A:\pto.vsk.txt
Output Set: N:\CRF3\02082002\I937100.raw

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 72 <223> OTHER INFORMATION: n=a,t,g,c
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 77 <222> LOCATION: (10)..(10)
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 83 <222> LOCATION: (14)..(14)
 84 <223> OTHER INFORMATION: k=g,t
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 89 <222> LOCATION: (16)..(16)
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114 1               5
117 <210> SEQ ID NO: 2
118 <211> LENGTH: 8
119 <212> TYPE: PRT
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123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: (1)..(1)
125 <223> OTHER INFORMATION: The 'Xaa' at location 1 stands for Asn, Asp, His, or Tyr.
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129 <222> LOCATION: (2)..(2)
130 <223> OTHER INFORMATION: The 'Xaa' at location 2 stands for Thr, Ala, Pro, or Ser.
132 <220> FEATURE:
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134 <222> LOCATION: (3)..(3)
135 <223> OTHER INFORMATION: The 'Xaa' at location 3 stands for Arg, Gly, or Trp.
137 <220> FEATURE:
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RAW SEQUENCE LISTING   DATE: 02/08/2002
PATENT APPLICATION: US/09/937,100   TIME: 11:34:17

Input Set : A:\pto.vsk.txt
Output Set: N:\CRF3\02082002\I937100.raw

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140 <223> OTHER INFORMATION: The 'Xaa' at location 4 stands for Met, Val, or Leu.
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144 <222> LOCATION: (5)..(5)
145 <223> OTHER INFORMATION: The 'Xaa' at location 5 stands for Cys, or Phe.
147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (6)..(6)
150 <223> OTHER INFORMATION: The 'Xaa' at location 6 stands for Lys, Glu, or Gln.
152 <220> FEATURE:
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154 <222> LOCATION: (7)..(7)
155 <223> OTHER INFORMATION: The 'Xaa' at location 7 stands for Glu, Asp, Gly, Ala, or
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157 <220> FEATURE:
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159 <222> LOCATION: (8)..(8)
160 <223> OTHER INFORMATION: The 'Xaa' at location 8 stands for His, Arg, Pro, or Leu.
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163 <223> OTHER INFORMATION: Oligonucleotide for an 8 amino acid barcode peptide
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (1)..(1)
168 <223> OTHER INFORMATION: n=a,t,g,c
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171 <221> NAME/KEY: misc_feature
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177 <222> LOCATION: (7)..(7)
178 <223> OTHER INFORMATION: n=a,t,g,c
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181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (10)..(10)
183 <223> OTHER INFORMATION: n=a,t,g,c
185 <220> FEATURE:
186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (14)..(14)
188 <223> OTHER INFORMATION: k=g,t
190 <220> FEATURE:
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192 <222> LOCATION: (16)..(16)
193 <223> OTHER INFORMATION: v=a,g,c
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (20)..(20)
198 <223> OTHER INFORMATION: n=a,g,t,c
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[Handwritten annotations:] Seq. 2 is a peptide sequence

Delete

This section and that circled on p.4 are for a nucleotide sequence, not a peptide sequence

[Partially obscured handwritten/faded text:]
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255        SEQ ID NO: 6
257 <211> LENGTH: 35
258 <212> TYPE: DNA
      <213> ORGANISM: Artificial
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265 ggaattcgt gatggtggtg gtc
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213 1               5
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217 <211> LENGTH: 14
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Linker peptide
224 <400> SEQUENCE: 3
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227 1               5                   10
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231 <211> LENGTH: 8
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
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236 <223> OTHER INFORMATION: Flag Epitope
238 <400> SEQUENCE: 4
240 Met Asp Tyr Lys Asp Asp Asp Lys
241 1               5
244 <210> SEQ ID NO: 5
245 <211> LENGTH: 53
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
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250 <223> OTHER INFORMATION: Primer RD5' Flag
252 <400> SEQUENCE: 5
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259 <213> ORGANISM: Artificial Sequence
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262 <223> OTHER INFORMATION: Primer RD3'
264 <400> SEQUENCE: 6
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269 <211> LENGTH: 50
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
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delete (handwritten annotation)

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334 <223> OTHER INFORMATION: P
336 <400> SEQUENCE: 12
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340 <210> SEQ ID NO: 13
341 <211> LENGTH: 28
342 <212> TYPE: DNA
343 <213> ORGANISM: Artificial
345 <220> FEATURE:
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274 <223> OTHER INFORMATION: Fos1for
276 <400> SEQUENCE: 7
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319 <213> ORGANISM: Artificial Sequence
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322 <223> OTHER INFORMATION: primer Fos1 fS
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341 <211> LENGTH: 28
342 <212> TYPE: DNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
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Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY   DATE: 02/08/2002
PATENT APPLICATION: US/09/937,100   TIME: 11:34:19

Input Set : A:\pto.vsk.txt
Output Set: N:\CRF3\02082002\I937100.raw

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
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L:1282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:1374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:1493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:1710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:2044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:2046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
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